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Knowledge Management AI (KMAI) and Private LLM

Get Started with Proven Enterprise Al Solutions





The Era of Al

What is Al



Al Definition

Artificial intelligence, or AI, is the creation of computer systems that are capable of performing tasks that generally require human intelligence, such as problemsolving and decision-making.

In order to imitate intelligent behavior and enhance performance over time, algorithms and data are utilized.







Al: The Fundamentals of the Data Layer

Why the Data Layer Matters?

The data layer underpins all of AI: data that's clean, structured, and accessible. Enabling reliable analytics and making AI deployment possible. Without it, advanced solutions cannot succeed.

Effective Data Foundation Case Studies



Data Lake & Data Warehouse Development

Developed a data Lake and data warehouse solution optimized for reporting and analysis, driving insights and improving decision making for a major wholesale retailer.



Data Unification & Data Warehouse Development for a Conglomerate

Identified more than 50M+ unique customer keys and built the largest consolidated customer data warehouse for retail business in Thailand with a scalable architecture

Typical Enterprise Challenges

Fragmented Infrastructure



Lack of centralized or scalable data systems hampers integration and usability.

Limited Readiness / Skills



Many enterprises lack proper data tools/ internal expertise to manage data effectively.

Al Readiness Barrier



Without high-quality, accessible data, deploying AI remains impractical and high-risk.

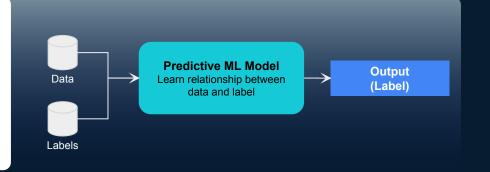




Introduction of Generative AI & Predictive AI Deep Learning Model Types

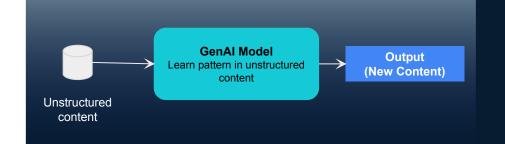
Predictive

- Used to classify or predict
- Typically trained on a dataset or labeled data
- Learns the relationship between the features of the data points and the labels



Generative

- Generates new data that is similar to data it was trained on
- Understands distribution of data and how likely a given example is
- Predicts next word in sequence







Al has a Powerful and Rapid Effect on Enterprise P&L

Al Can Drive Enterprise-Wide Economic Impact

Immediate and Deep **Productivity Boost**

Reduction in Human Error Improve Quality

Harvest New Income Streams

Revenue Boost

Unlocked Door New Capabilities

Results from Al Drop Quickly to the Bottom Line



+1:

Redefines traditional business systems

Generative Al's potential lies in its ability to not only redesign task or process level, but also reimagine entire systems of organizations



+1:

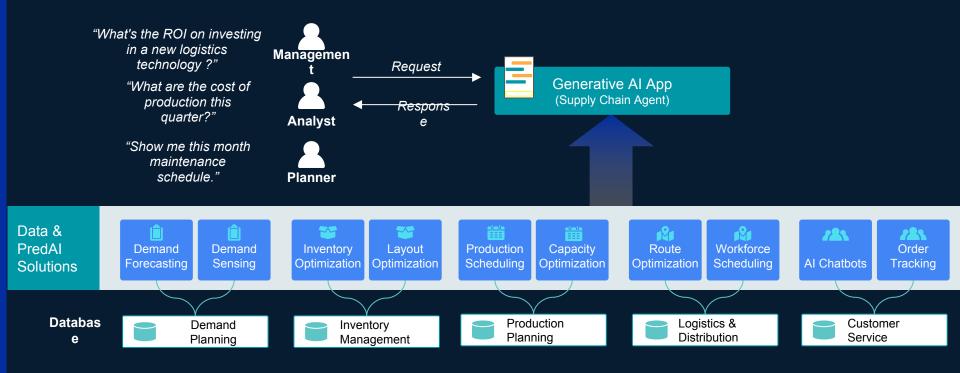
Reshapes competitive landscape

Disruption will favor innovators, and the superstar who quickly adopts will dominate the industry and outpace their competitors in productivity and profitability





Generic Example: Predictive AI & Generative AI Along the Supply Chain







Specific Examples - Retail



Demand Forecasting

Forecast demand for each SKU using Statistical or ML Models, enabling other optimization usecases.



Product Recommendation

Predict interest score for every customer and product combination.



Personalization

Identify patterns and preferences unique to each customer and generate tailored content or products that meet their needs.



Promotion Effectiveness

Quantify the impact of promotions and optimize mechanics per customer and product group.



Assortment Optimization

Recommend the right products for each store.



Cross-Sell Rules Mining

Quantify the relationship or "LIft" between two products using Apriori Rules Mining.



Customer Segmentation

Group Customers based on shared characteristics, preferences, behaviors, etc.



Store Clustering

Choose BEST NEW LOCATION; Group similar stores based on similar attributes or characteristics.



Category Decision Tree

Recategorize products using network analysis & clustering models and visualize category hierarchy that represents customer decision-making.





SERTIS

KMAI Knowledge Management Al

Drive Enterprise-Wide Efficiency Through a Single Source of Truth





Processes are Slower than Need Be, Prone to Error, Susceptible to Knowledge Loss, and Sub-optimized

Unstructured Data (Documents, etc) is "Unorganized & Everywhere"

Productivity Trap



Multiple teams across the enterprise stuck in repetitive, timeconsuming tasks



Gathering scattered Lost time limits focus data is not optimal and on strategic, highleads to "misses" and impact work error

Insight Gap



Are some teams behind other teams? Redundant work. analyses?

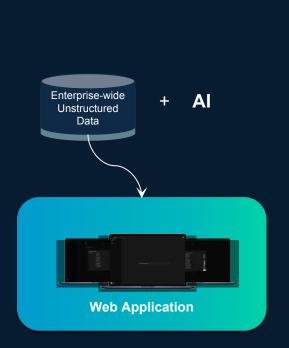


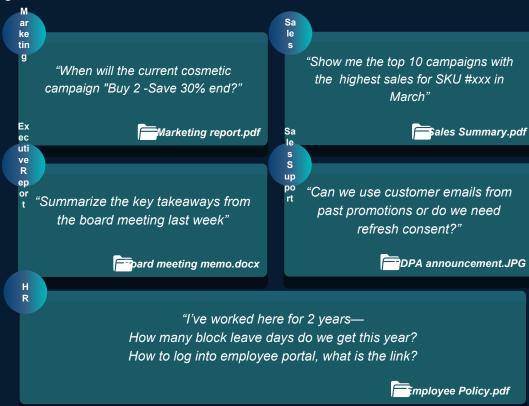
Irrelevant making and thwarts the business case



Missed insights weaken output stalls decision- work output and ultimately competitive advantage

Imagine What would be Possible with an Always-on, **QA AI Assistant that Knows All your Unstructured Data?**









Enhance your organization's Knowledge Management Cycle with Al

Knowledge Management AI (KMAI)

Insights Report with Reference Sources

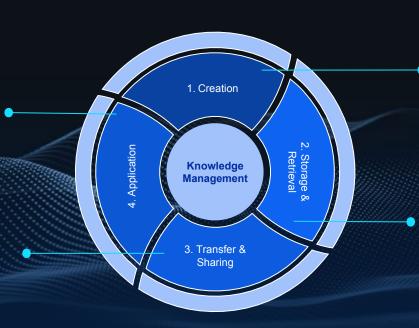
Customizable result in dashboard report XLSX/CSV exports, able to provides source references

User Management & Access Permission

Manage employee access based on authorization
Alert management for unauthorized inquiries and repetitive
questions
Blacklist specific words and topics

Multi-lingual Support

Support interactions in multiple languages, able to respond in the same language as question



Al-powered DocumentGeneration

Increasing speed of report generation, turn draft outlines and information into finished reports

Ingest Internal & External Sources in Multiple Formats

Multiple simple ways to add documents or external sources to the organization database Multiple document formats support. Including URL search for external source of knowledge.

Retrieve Knowledge by a Semantic, LLM-powered Chatbot Interface

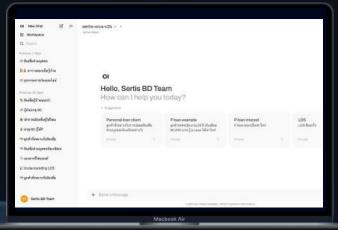
Tune the most advanced, multiple LLMs for the specific industry AND the specific company, leading to better performance





Knowledge Management Al

Streamline workflows, enhance research capabilities, and boost productivity



Semantic Search Optimized for Company and Industry

We tune the most advanced LLMs for the specific industry AND the specific company, leading to better performance

Compliance Alert Setting

Manage employee access based on authorization and alert management for repetitive or unauthorized inquiries

Multiple Information Ingestion Methods

Multiple simple ways to add documents to the organization repository

Ensure Your Data Stays Secure Within Your Organization

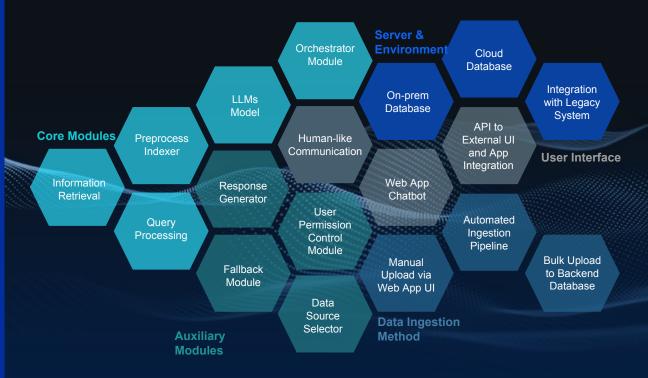
We use a bespoke encryption method to ensure your data is never directly shared with the LLM provider

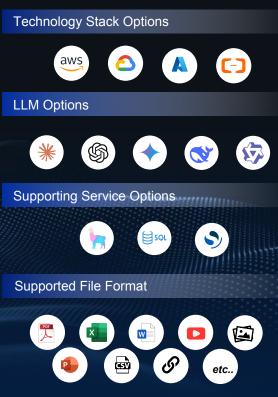




Features for Enterprise Deployment

Flexible LLMs & Technology stacks









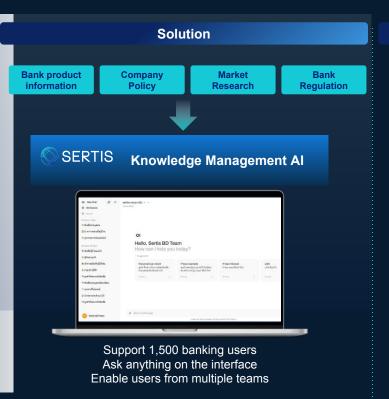
Accelerating Enterprise-Wide Efficiency with Reliable, Real-time Updated Information

Case Study: Knowledge Management Al at a Leading Thai Bank

Business Challenges



The bank needed to boost work efficiency and accuracy across the enterprise whilst having bank-centric, real-time information and industry-tuned, fast response KMAI



Results



Enhanced employee productivity

by streamlining tasks, accelerating research speed and accuracy, and comprehensive information access for improved decision-making



Improved branch staff sales processes

by recommending consistent product programs, better sales pitches, and real time results, driving +12% to conversion rates and higher CSAT scores



Reduced bank liability

By ensuring consistent sales process, eliminating "mis-selling" across all branch employees, eliminating knowledge gaps



Knowledge Management Al

Your KMAI Adoption Journey: From Pilot to Production

1 Execute NDA



Sign Non-Disclosure Agreement to start collaboration

5 Review & Feedback (2 weeks)

Review & gather feedback; finetune the solution, further train the KMAI on acronyms, etc. 2 Submit Data Samples

Sample documents that reflect the variety of topics and formats in your organization

6
Prepare
Statement of Work

Draft project-based SOW for full implementation; develop implementation plan, cross-work with client tech teams

3 POC Delivery (2–4 weeks)



Sertis delivers initial Proof of Concept via web UI; test and choose among LLMs, optional features

7 Contracting



Full scope contract

4 Customer 11 11 Testing (2 weeks)

Customer tests and evaluates the KMAI

8
Project Execution

Begin full project execution (4 weeks on avg)





SERTIS Private LLM

Gain the Full Power of an LLM and KMAI that is Secure, Autonomous, and Tailored Directly to your Enterprise





Al Problem Statement

Enterprises Need LLMs to Boost Productivity, but Cannot Accept the Data Security Risks

We Need to Use LLMs and Al in our Daily Operations...





Opportunity to Reduce Error and Cost across **Enterprise Processes**

LLMs and Al are essential to reduce error and cost in compliance, data synthesis, internal and external report generation, knowledge sharing, and all Single Source of Truth

Opportunity to Increase Productivity

LLMs and Al deliver significant productivity gains across the enterprise, creating a strong competitive advantage

...but Public LLMs Compromise Enterprise Data Privacy and Security







Sensitive Data Vulnerabilities

- All forms of enterprise data are prime targets for exploitation by malicious actors
- Public LLMs such as ChatGPT, Gemini, and Claude are often not compliant with corporate data security policies, posing significant risks to sensitive information

Employee Use of Public LLMs = Security Risks

- · Employees using public LLMs for work may unintentionally expose sensitive data to an international knowledgesharing platform
- It is nearly impossible to quarantee that employees are not using personal LLM accounts to perform company-related tasks

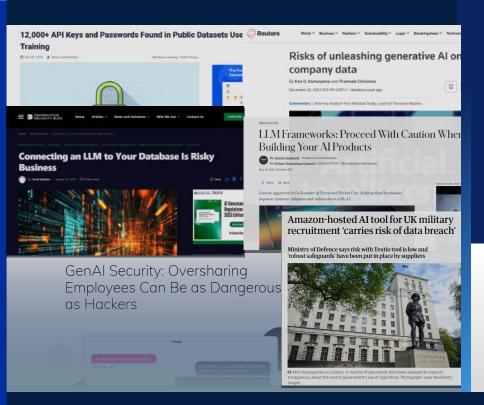
Risk is Constant and **Likely Catastrophic**

- Mishandling or accidental exposure of sensitive data can result in catastrophic business risks
- Only zero-trust protocols and strict SOPs can ensure data security





Public LLMs Are a Growing Threat to Enterprise Security



22 Billion

Data records "inadvertently found their way onto LLM training in 2024"

"Representing a twofold increase from the previous year, employees are inputting sensitive data like clinical notes into LLM tools not realizing that once information is entered, it's absolutely used to train models. Plus these LLMs actively search for the data all over the internet including emails. The risk extends beyond individual users to corporations."

Forbes, 2024



Instances of private customer information cost over \$200 per record. Since a growing number of companies turn to AI models for data management and task automation, the risk of a data breach increases even further.



Recent research shows how easy it is to retrieve private user information such as emails and passwords from public AI model training data.





Make All your Al Tools Powerf

Enterprises Gain AI Advantages while Avoiding the Risks Assault



Secure and Autonomous LLM

On your premises or in your cloud, gain your own secure (air gapped) autonomous AI system capable of managing sensitive information and driving productivity while avoiding the risks associated with external networked public LLMs.

Enterprise Security Options for Private LLM

Private

Use software set-up for Private LLM with major cloud providers (AWS, MS. Google)

> Suits strict security environments

Vault

Hardware solution fully on-premise with no cloud access

For maximum data sovereignty and control



Encryption, access control, intruder detection and alerts, compliance administration tools



Software Capabilities

Natural Language Processing (NLP)

Advanced capabilities for text analysis, summarization, translation, and generation

Data Management

Secure and efficient handling of sensitive data, with robust data governance and compliance tools

Plug & Play on your Network

Minimal set up - API-ready for quick adoption into existing workflows. Scalable performance optimized for enterprise environments



Operations Capabilities

Pre-Built User Interface Intuitive and user-friendly interface for easy interaction and management of the system

Easy Integration to Workflows

Includes IT infrastructure and work processes, easy hardware maintenance by IT Team

Flexible Architecture Fully on-prem or combination of secure outside Data center and non-public cloud deployment, fits into any existing IT infrastructure and intercompany off-net networks

Software Updates Available

Stay ahead with the latest Al improvements and optimizations after-sale support*



Flexible Business Model

Hardware Deployment Options

Choose between owning, financing, or leasing hardware to best suit your business model and operational flexibility

Simple Pricing Model

One-time training and setup fee with a predictable monthly payment – includes all future upgrades, feature enhancements, and optional performance tuning*





The Pathway to Successful Al Deployment





Despite Al's Attractiveness, Sertis Observes Self-Inflicted Pitfalls Hindering Al Adoption & Deployment

1 Poor Strategy and Data Readiness

Misaligned goals and disjointed internal effort weakens data preparation, causing "GIGO" inefficiencies.



2 Miscalculated ROI

Overlooking cross-functional KPIs from Financial to Legal to Operational, or failing to look at process integration of AI deployments, can lead to ROI miscalculation.



3 Fragmented Approach

Focusing on isolated AI use cases creates usage silos, limiting scalability and weakening alignment with organizational goals.







The Optimal Pathway to Successful Al Deployment & High ROI

1. Identify Business Problems

Define key business challenges and pain points that Al may help solve

3. Designate an Al Champion

Appoint a cross-functional leader to guide decisions, ensure collaboration, and drive the initiative (Finance, Legal, Tax, Ops, Marketing)

5. Engage an Experienced Al Partner

Align technical and business priorities through meticulous requirements gathering and detailed data layer analysis, ensuring seamless integration and scalable solutions

7. Implement and Monitor Effectively

Deploy the solution with continuous monitoring to resolve challenges and ensure optimal performance

2. Establish Clear Objectives

Set measurable business outcomes aligned with strategic goals for AI initiatives; can other non--AI solutions also work?

4. Foster Internal Alignment

Align stakeholders by addressing KPIs, IT integration, compliance, and ROI goals upfront

6. Proposal Preparation

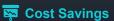
Collaboratively develop a detailed plan covering technical and business requirements, data integration needs, iterative releases, and ongoing support

8. Optimize and Scale

Refine processes, leverage vendor expertise, and scale Al deployment to maximize enterprise value

ROI: Measuring Al's Impact on Enterprise

Current ROI Landscape



Al automation reduces manual labor and operational expenses, increasing efficiency

Risk Mitigation

Al detects and prevents fraudulent activities, safeguarding assets

Scalability

Al enables business expansion without proportional cost increases

Revenue Growth

Al-driven personalized services and products boost sales and customer retention

C Operation Efficiency

Al streamlines workflows, reduces errors, and optimizes processes



Sompetitive Advantages

Al-driven innovation accelerates product development and market leadership, new capabilities; "AI is IA"





The GenAl Success Case: A fintech startup

Measurable Benefits Always Underpin the Al ROI Case

The GenAl Solution

Enhance trade operation productivity using **optical character recognition (OCR)** and **LLMs** to digitize and interpret information from various trade documents







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